In re application of:

Roger A. Grey et al.

Group Art: Unknown

Serial No. 10/796,680

Examiner: Unknown

Filed: March 9, 2004

For: OXIDATION PROCESS WITH IN-SITU H2O2 GENERATION AND POLYMER-

ENCAPSULATED CATALYSTS THEREFOR

Commissioner For Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)(1)

Sir:

Applicants submit here a list of references they believe are relevant to the examination of this patent application. The references are listed on accompanying form PTO-1449 and copies of non-U.S. patent references are enclosed.

Applicants respectfully ask the Examiner to consider the cited references.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail, with sufficient postage, in an envelope addressed to:

Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on March 29, 2004.

Jonathan L. Schuchardt

Name of person signing

Respectfully submitted,

Roger A. Grey et al.

Jonathan L. Schuchardt

Reg. No. 34,428

Attorney for Applicant(s)

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Phone: (610) 359-2276

March 29, 2004

Customer Number: 24114



PATENT

Re:	Application	

: Roger A. Grey et al.

Case No.

: 01-2631A

Serial No

10/796,680 : March 9, 2004 **Art Unit No** Examiner

Unknown : Unknown

Filed For

OXIDATION PROCESS WITH IN-SITU H2O2 GENERATION AND

POLYMER-ENCAPSULATED CATALYSTS THEREFOR

Enclosed are the following documents related to the above-identified application:

- (X) Return Receipt of Postcard
- () Request for Reconsideration () Declaration Under 37 C.F.R. § 1.131

(X) Certificate of Mailing

() Declaration Under 37 C.F.R. § 1.132

() Preliminary Amendment () Assignment for Recordal

- ()Terminal Disclaimer 37 C.F.R. § 1.321(c)
- (X) Information Disclosure Statement
- () Notice of Appeal
- Under 37 C.F.R. § 1.97(b)(1) (X) Form PTO-1449 & non-US References
- () Statement of Common Ownership
- () Response to Restriction Requirement
- () Amendment After Allowance 37 C.F.R. § 1.312
- () One-Month Extension of Time Under
- () Issue Fee Transmittal
- 37 C.F.R. § 1.136 (fee noted below)
- () Certificate Under 37 C.F.R. § 3.73(b) () Amendment Under 37 C.F.R. §1,121

The fee has been calculated as shown below:

CLAIMS AS AMENDED

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- (X) No additional fee is required.
- to Deposit Account No. 01-2230. Two duplicate copies of this () sheet are enclosed.
- (X) Please charge any additional fees or credit overpayment to Deposit Account No. 01-2230.

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Jonathan L. Schuchardt Name of Person Signing

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Jonathan L. Schuchardt Reg. No. 34,428

Attorney for Applicant(s)

LYONDELL CHEMICAL COMPANY

3801 West Chester Pike Newtown Square, PA 19073 Telephone: (610) 359-2276

March 29, 2004

Customer Number: 24114

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LIST OF PRIOR ART CITED BY APPLICANT			PLICANT	Applicant: Roger A. G	rey et al.		Group Art: U	Jnknown		
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	AA	6,498,259	12/24/02	Grey et al.	549	533	10/19/01			
	AB	6,403,815	06/11/02	Grey	549	532	11/29/01			
	AC	6,310,224	10/30/01	Grey .	549	523	01/19/01			
	AD	6,156,245	12/05/00	Takebayashi et al.	264	4.7	02/26/99			
	AE	6,063,942	05/16/00	Grey	549	523	09/27/99			
	AF	6,005,123	12/21/99	Dessau et al.	549	531	04/12/99			
	AG	5,973,171	10/26/99	Cochran et al.	549	533	10/07/98			
	АН	4,410,501	10/18/83	Taramasso et al.	423	326	06/29/82			
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	AQ	W. R. Sanders	on, <u>Pure Appl</u>	. Chem. 72 (2000) 1289.			 			
	AR	Ingallina et al.,	Sci. Tech. Ca	tal. (1994) 31.						
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Form PTO-1449 U.	S. Depa	artment of Comm	erce	Attorney Docket: 01-26	31A		Examiner: U	nknown		
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	AP	T. Tatsumi et al.,	J. Chem. S	oc., Chem. Commun. (1992)	1446.					
	AQ	AQ S. Kobayashi et al., Chem. Commun. (2003) 449.								
	AR	S. Kobayashi et a	al., <u>Angew. (</u>	Chem., Int. Ed. 40 (2001) 346	9.	<u> </u>				
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	AP	S. Kobayashi e	t al., <u>J. Am. C</u>	hem. Soc. 120 (1998) 2985.		-				
	AQ	K. Edler et al.,	J. Chem. Soc	 						
	AR	M. Donbrow, "N	/licrocapsules	and Nanoparticles in Medicin	ne and Pharmac	y" Ed., pp 1-14.				
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	AP	G. Beestman, "N Scher, Ed., pp 3	Microencapsu 1-54.	rlation of Solid Particles," in Co	ontrolled-Releas	se Delivery System	ms for Pesticides	_(1999), H.
	AQ	M. Iso et al., <u>Zai</u>	ro Gijutsu <u>3</u> (1985) 29.				
	AR	M. Yoshida, et a	II., J. Appl. Po	olym. Sci. 89 (2003) 1966.				
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	AP	S. Ley et al., Ch	em. Commu	n. (2002) 1132 and 1134.					
	AQ	J. Yu et al., <u>Chem. Commun</u> . (2003) 678.							
	AR	H. Kage et al., A	Ndv. Powder	Technol. 13 (2002) 265.					
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 	AP	Y. Hu et al., Ch	em. Commun	. (2002) 788.		3 77.				
	AQ	W. Chen et al.,	Tetrahedron	<u>58</u> (2002) 3889.						
	AR	D. Bergbreiter	et al., <u>Org. Le</u> l	ters 2 (2000) 393.						
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	AP	O. Chiantore et	O. Chiantore et al., Polym. Degrad. Stab. 67 (2000) 461.						
	AQ	W. Chen et al., <u>Chem. Commun</u> . (2000) 839.							
	AR	L. Balducci et al	, Angew. Ch	em. Int. Ed. 42 (2003) 4937.				· · · · · · · · · · · · · · · · · · ·	
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	AR	A. Bhaumik et al., <u>Catal. Le</u>	etters 40 (1996) 47.					
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